Base Realignment and Closure (BRAC) Cleanup Team Workshop

Health and Environmental Risk Communication

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Risk Communication Team

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Why Risk Communication?

- Scientists and engineers were having a difficult time communicating study results effectively, resulting in:
 - Failure to alleviate public concern
 - Failure to address customer concerns
 - Requirement to complete additional studies

Low Trust and/or High Concern

- Results in limited attention/retention
 - 15% 20% efficiency
- Why?
 - Denial of issue
 - Trauma from issue
 - Competing agendas
 - Emotional arousal

Implications of Limited Attention/Retention

- Limited number of messages
- Repetition of messages
- Time limitations

Key Community Concerns

- Health
- Economics
- Aesthetics
- Process

- Safety
- Environment
- Fairness/Equity
- Legal Issues

Ethical Principles

- Risk Communication tools and techniques should not be used to mislead people about ourselves or others
- Risk Communication tools and techniques should not be used to mislead people about any issues
- We should not unnecessarily raise the level of concern for any party

Three Key Messages

- \bullet P = R
 - Perception <u>IS</u> Reality
- G = T + C
 - Our Goal is to establish Trust and Credibility
- C = S
 - Communication is a Skill

Perception - Jargon

- Groundwater
- Remediation
- CDC
- Fugitive emissions
- Toxicologist
- Industrial hygienist
- 10E-6

- Exceed the standard
- Below the standard
- "Leachate that is leaching into the groundwater that is migrating off site in a plume"

Perception - Risk Weighting Factors

<u>Factor</u>	Weight
Trust	2000
Benefit	1000
Control (Voluntary)	1000
Fairness (Share)	500
Alternatives	500
Catastrophe	300

Perception - Four Hit Theory of Belief Formation

- Once formed, beliefs are very difficult to change
- Four (on average) unanswered credible hits of information will support belief formation
- Hits from one side can negate hits from the other side
- One negative = Three positive
- After first hit 48 hours of active search

$$N = 3P$$

 Repetition of a negative allegation or accusation, even when refuted, results in reinforcement and reaffirmation of the initial allegation or accusation

- Negative words to avoid:
 - -No
 - Not
 - Never
 - Nothing
 - None

- Negative words/phrases
 - Contamination
 - Pollution
 - Toxic
 - Dangerous
 - Concern
 - Any words or phrases with strong negative connotations

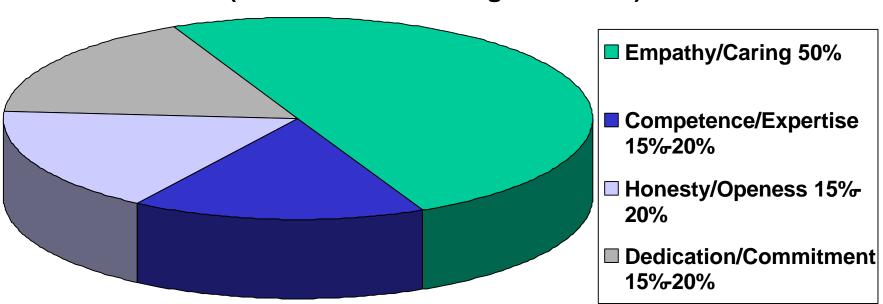
Non-Verbal Communication

- Can provide up to 50% 75% of message content
- Noticed intensely by the audience
- Interpreted negatively
- Overrides verbal communication

Non-Verbal Communication

- Eyes
 - Eye contact
 - Where to look
- Hands
 - Visible, open palm
- Posture
 - 5° forward of vertical

Trust and Credibilty Factors (Low Trust and/or High Concern)



- Credibility Transference
 - A lower credibility source takes on the credibility of the highest credible source that agrees with its position on an issue

- Credibility Reversal
 - When a lower credibility source attacks the credibility of a higher credibility source, the lower credibility source loses more credibility
 - The only information source that can effectively attack the credibility of another information source, is an information source of equal or higher credibility

- The G4 or Critical Mass Theory of Government Credibility Transfer
 - The sum total of the credibility of any four government agencies is substantially greater than the sum total of the credibility of the individual agencies

- Seven Part Communication Structure
 - Empathy/Caring or statement of commitment
 - State three key messages
 - Key message 1 with two supporting facts
 - Key message 2 with two supporting facts
 - Key message 3 with two supporting facts
 - Repeat three key message
 - Provide future actions

- The "Level 6" Answer
 - − 1. Express empathy/concern
 - 2. Provide a 7-12 word soundbite conclusion
 - 3. Provide supporting fact #1
 - 4. Provide supporting fact #2
 - 5. Repeat conclusion exactly as stated before
 - 6. Provided future action

- Answering difficult questions
 - "Declared Victory"
 - "Commitment"

- Hedging words to avoid:
 - Maybe
 - Possibly
 - Perhaps
 - Depending

Public Meetings VS. Open Houses

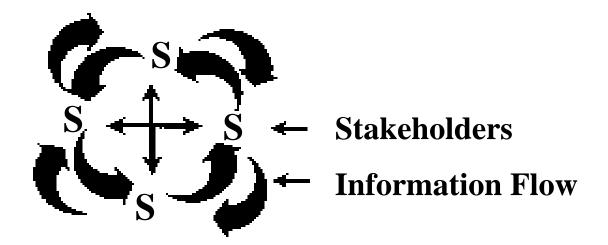
Effective Public Meetings

- Moderator
- Anticipated issues/questions
- Presentation skills

Public Meeting Guidelines

- Interruptions
- Number/duration of comments or questions
- Agenda/adjournment

Public Dialogue Model



- Potential Uses
 - Use immediately prior to and/or after scheduled public meeting
 - Use as supplement to or substitute for public meeting

- Logistics
 - Present information in four to six exhibits
 - Schedule for four to six hours duration
 - Arrange posters to highlight key messages:
 - Use three key messages
 - Put one key message per central poster
 - Have supplemental material on side posters
 - Space exhibits around meeting area to enhance discussions

- Logistics (cont.)
 - Have trained presenters at each exhibit
 - Use master presenter for crisis
 intervention/difficult situations/quality control
 - Invite outside independent experts
 - Consider inviting participation by special/ public interest groups
 - Provide method for public to leave comments

- Logistics (cont.)
 - Discourage clustering of presenters
 - Ensure presenters maintain appropriate decorum
 - Schedule for day of week convenient for local community or target audience
 - Arrange for refreshments
 - Invite opinion leaders as attendees
 - Provide assistance for people with special needs

Elements of Poster Stations

- Illustration/Graphics
 - (4-6 grade level)
- Conclusion/Sound bite
 - (6-8 grade level; 7-12 words; large letters)
- Executive summary/Supporting facts
 - (6-8 grade level; 5-7 lines; large letters)

- Detailed description
 - (8-12 grade level; 15-20 lines)
- Table documentation/ Supporting information
 - (positive executive statement; legal documentation)

Elements of Poster Stations

- Expert presenter trained in environmental risk communication
- Handouts/take away information
- Log for recording comments
- Stenographer/tape recorder/interpreter
- Simple color design